



ATTORNEY DOCKET NO. 25006.0001U5  
SERIAL NO. 10/038,718  
Page 1 of 1

Form PTO-1449  
U.S. DEPARTMENT OF COMMERCE (Rev. 7-80)  
PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.: 25006.0001U5

SERIAL NO. 10/038,718  
CONFIRMATION NO. 4062

APPLICANT: Lizardi

LIST OF PRIOR ART CITED BY APPLICANT  
(Use several sheets if necessary)

FILING DATE: January 2, 2002

GROUP: 1655

EXAMINER INITIALS		DOCUMENT NO.	DATE	NAME	CLAS S	SUBCLASS	FILING DATE IF APPROPRIATE
	B1	6,124,120	Sep. 26, 2000	Lizardi			
	B2	6,143,495	Nov. 7, 2000	Lizardi et al.			
	B3	6,280,949	Aug. 28, 2001	Lizardi			
	B4	6,287,824	Sep. 11, 2001	Lizardi			
	B5	6,316,229	Nov. 13, 2001	Lizardi et al.			
	B6	6,329,150	Dec. 11, 2001	Lizardi et al.			



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10/6/02

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Form PTO-1449		Complete if Known	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Application Number	10/038,718
LIST OF INFORMATION CITED BY APPLICANT (Use as many sheets as necessary)		Filing Date	January 2, 2002
		First Named Inventor	Paul M. Lizardi
		Group Art Unit	1634
		Examiner Name	Ethan C Whisenant

U.S. PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
[Signature]	C1	5,866,336	02/02/99	Nazarenko et al.	[Signature]	[Signature]	[Signature]
	C2	5,876,924	03/02/99	Zhang et al.			
	C3	5,942,391	08/24/99	Zhang et al.			
	C4	6,033,881	03/07/00	Himmler et al.			
	C5	6,096,880	08/01/00	Kool et al.			
	C6	6,117,635	09/12/00	Nazarenko et al.			
	C7	6,221,603 B1	04/24/01	Mahtani et al.			
	C8	6,255,082 B1	07/03/01	Lizardi et al.			
	C9	6,291,187 B1	09/18/01	Kingsmore et al.			
	C10	6,323,009 B1	11/27/01	Lasken et al.			

FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes/No
[Signature]	C11	EP 0 745 690 A2	12/04/96	The Public Health Research Institute of the City of New York, Inc.	
	C12	WO 00/71562 A1	11/30/00	The Public Health Research Institute of the City of New York, Inc.	
	C13	WO 97/19193	05/29/97	Yale University	
	C14	WO 99/31276	06/24/99	Nexstar Pharmaceuticals, Inc.	

NON-PATENT DOCUMENTS			
Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)	
[Signature]	C15	Baner et al. Signal Amplification of Padlock Probes by Rolling Circle Replication, <i>Nucleic Acids Research</i> , Oxford University Press, Surrey, 26(22):5073-5078 (1998), XP002112357	
	C16	Gusev et al. Rolling Circle Amplification: A New Approach to Increase Sensitivity for Immunohistochemistry and Flow Cytometry, <i>American Journal of Pathology</i> , 159(1): 63-69 (July 2001)	
	C17	Lizardi et al. Mutation Detection and Single-Molecule Counting Using Isothermal Rolling-Circle Amplification, <i>Nature Genetics</i> , 19:225-232 (1998)	
	C18	Mullenix et al. Allergen-specific IgE Detection on Microarrays Using Rolling Circle Amplification: Correlation with in Vitro Assays for Serum IgE, <i>Clinical Chemistry</i> , 47(10):1926-1929 (2001)	
	C19	Nuovo, et al. In Situ Amplification Using Universal Energy Transfer-labeled Primers, <i>The Journal of Histochemistry &amp; Cytochemistry</i> , The Histochemical Society, Inc., New York, New York 43(3):273-279 (1999), XP008002684	
	C20	Schweitzer et al. Immunoassays with Rolling Circle DNA Amplification: A Versatile Platform for Ultrasensitive Antigen Detection, <i>PNAS</i> , 97(18):10113-10119 (August 29, 2000)	
	C21	Schweitzer et al. Multiplexed Protein Profiling on Microarrays by Rolling-Circle Amplification, <i>Nature Biotechnology</i> , 20:359-365 (April 2002)	
	C22	Tyagi et al. Molecular Beacons: Probes that Fluoresce upon Hybridization, <i>Nature Biotechnology</i> , 14:303-308 (March 1996), XP000196024	
	Examiner Signature: [Signature]		Date Considered: 10/6/67
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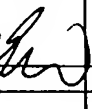
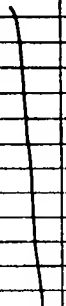

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Substitute for form 1449A/PTO		Complete if Known			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/044,723 Unassigned		
		Filing Date	August 23, 2000 Hercwith		
		First Named Inventor	Paul M. Lizardi		
		Group Art Unit			
		Examiner Name			
Sheet	1	of	12	Attorney Docket Number	YU 115 CON 121 25006.0001US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
  		4,883,750		Whiteley, et al.	11-28-1989	31046 U.S. PTO 10/038718  01/02/02
		4,965,188		Mullis et al.	10-23-1990	
		4,994,373		Stavrianopoulos, et al	02-19-1991	
		5,001,050		Blanco et al.	03-19-1991	
		5,198,543		Blanco et al.	03-30-1993	
		5,242,794		Norman, et al.	09-07-1993	
		5,328,824		Ward, et al.	07-12-1994	
		5,354,668		Jeffrey I. Auerbach	10-11-1994	
		5,409,818		Davey et al.	04-25-1995	
		5,455,166		Walker	10-03-1995	
		5,521,065		Whiteley, et al.	05-28-1996	
		5,591,609		Jeffrey I. Auerbach	01-07-1997	
		5,614,389		Jeffrey I. Auerbach	03-25-1997	
		5,714,320		Eric T. Kool	02-03-1998	
		5,733,733		Jeffrey I. Auerbach	03-31-1998	
		5,854,033		Lizardi	12-29-1998	

FOREIGN PATENT DOCUMENTS								
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Office. <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		WO	92/01813		Syngene, Inc.	02-16-1992		
		WO	94/24312		Beckman Instruments, Inc.	10-27-1994		
		WO	95/03432		Bio-Rad Laboratories, Inc.	02-02-1995		
		WO	95/22623		Landegren, Ulf	12-24-1995		

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<sup>1</sup> Unique citation designation number <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant to place a check mark here if English language Translation is attached.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	<del>09/644,723</del> <b>Unassigned</b>
		Filing Date	<del>August 23, 2000</del> <b>Hereafter</b>
		First Named Inventor	Paul M. Lizardi
		Group Art Unit	
		Examiner Name	
Sheet 2 of 12	Attorney Docket Number	YU 115 CON (2) 25006.0001US	

U.S. PATENT DOCUMENTS					
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		Office. <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
<i>EW</i>		WO	95/35390		Mount Sinai School of Medicine of the City University of New York	12-28-1995	
		WO	97/20948		Hofman-Bang & Boutard, Lehmann & Ree	06-12-1997	
		WO	97/42346		Tepnel Medical Limited	11-13-1997	
		EP	0 128 332	A2	Enzo Biochem, Inc.	12-19-1984	
		EP	0 356 021	A2	Imperial Chemical Industries PLC	02-28-1990	
		EP	0 439 182	B1	Abbott Laboratories	07-31-1991	
		EP	0 505 012	A2	F. Hoffmann-La Roche, AG	09-23-1992	
		EP	0 667 393	A2	Enzo Diagnostics, Inc.	08-16-1995	
		JP	4262799		Toyobo Co. LTD.	09-18-1992	
		JP	4304900		Toyobo Co. LTD.	10-28-1992	
		AU	649066		Syngene, Inc.	05-12-1994	

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		Application Number	<del>09/044,729</del> Unassigned		
		Filing Date	August 22, 2000 Herein		
		First Named Inventor	Paul M. Lizardi		
		Group Art Unit			
Examiner Name					
Sheet	3	of	12	Attorney Docket Number	YU 115 CON (2) 2500.0001 US

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		ABRAVAYA, et al., "Detection of point mutations with a modified ligase chain reaction (Gap-LCR)", <i>Nucleic Acids Res.</i> 23(4): 675-682 (1995).	
		ALIOTTA, et al., "Thermostable Bst DNA polymerase lacks a 3'-5' proofreading exonuclease activity," <i>Genet. Anal.</i> 12:185-195 (1996).	
		ALVES & CARR, "Dot blot detection of point mutations with adjacently hybridising synthetic oligonucleotide probes", <i>Nucleic Acids Res.</i> 16(17): 8723 (1988).	
		ARNOLD, et al., "Assay Formats Involving Acridinium-Ester-Labeled DNA Probes", <i>Clin. Chem.</i> 35(8): 1588-1594 (1989).	
		BARANY, "Genetic disease detection and DNA amplification using cloned thermostable ligase", <i>Proc. Natl. Acad. Sci. USA</i> 88: 189-193 (1991).	
		BERTINA, et al., "Mutation in blood coagulation factor V associated with resistance to activated protein C", <i>Nature</i> 369: 64-67 (1994).	
		BIRKENMEYER & MUSHAWAR, "DNA probe amplification methods", <i>Journal of Virological Methods</i> 35: 117-126 (1991).	
		BLANCO & SALAS, "Characterization and purification of a phage ø29-encoded DNA polymerase required for the initiation of replication", <i>Proc. Natl. Acad. Sci. USA</i> 81: 5325-5329 (1984).	
		BLANCO, et al., "Highly Efficient DNA Synthesis by the Phage ø29 DNA Polymerase", <i>Journal of Biological Chemistry</i> 264(15): 8935-8940 (1989).	
		BLANCO, et al., "Terminal protein-primed DNA amplification", <i>Proc. Natl. Acad. Sci. USA</i> 91: 12198-12202 (1994).	

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		Filing Date	August 23, 2000 Here with
		First Named Inventor	Paul M. Lizardi
		Group Art Unit	
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Sheet 4 of 12	Attorney Docket Number	YU 115 CON (2) 2000.0001US	

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		BOEHMER & LEHMAN, "Herpes Simplex Virus Type 1 ICP8: Helix-Destabilizing Properties", <i>Journal of Virology</i> 67(2): 711-715 (1993).	
		BROUDE, et al., "Enhanced DNA sequencing by hybridization", <i>Proc. Natl. Acad. Sci. USA</i> 91: 3072-3076 (1994).	
		BURGESS & JACUTIN, "A new photolabile protecting group for nucleotides" <i>Am. Chem. Soc. Abstracts</i> , volume 221, abstract 281 (1996).	
		BUTLER & CHAMBERLIN, "Bacteriophage SP6-specific RNA Polymerase", <i>Journal of Biological Chemistry</i> 257: 5772-5778 (1982).	
		CHATTERJEE, et al., "Cloning and overexpression of the gene encoding bacteriophage T5 DNA polymerase", <i>Gene</i> 97: 13-19 (1991).	
		CHETVERINA, et al., "Cloning of RNA molecules in vitro," <i>Nucleic Acids Research</i> 21:2349-2353 (1993).	
		DAUBENDIEK, et al., "Generation of catalytic RNAs by rolling transcription of synthetic DNA nanocircles," <i>Nature Biotechnology</i> 15:273-277 (1997).	
		DAUBENDIEK, et al., "Rolling-Circle RNA Synthesis: Circular Oligonucleotides as Efficient Substrates for T7 RNA Polymerase," <i>J. Am. Chem. Soc.</i> 117:7818-7819 (1995).	
		DAVANLOO, et al., "Cloning and expression of the gene for bacteriophage T7 RNA polymerase", <i>Proc. Natl. Acad. Sci. USA</i> 81: 2035-2039 (1984).	
		DYNAL, Technical Handbook, "Biomagnetic Techniques in Molecular Biology" (DYNAL A.S., 1995).	

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		Application Number	09/044,725 <i>Unassigned</i>		
		Filing Date	August 29, 2000 <i>Herewith</i>		
		First Named Inventor	Paul M. Lizardi		
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Examiner Name					
Sheet	5	of	12	Attorney Docket Number	YU 115 CON (2) 2500-0001 US

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
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<i>[Signature]</i>		ERNST, et al., "Cyanine dye labeling reagents for sulfhydryl groups" <i>Cytometry</i> 10:3-10 (1989).	
		FIRE & XU, "Rolling replication of short DNA circles", <i>Proc. Natl. Acad. Sci. USA</i> 92: 4641-4645 (1995).	
		GASPARRO, et al., "Site-specific targeting of psoralen photoadducts with a triple helix-forming oligonucleotide: characterization of psoralen monoadduct and crosslink formation" <i>Nucleic Acids Research</i> 22(14): 2845-2852 (1994).	
		GERDES, et al., "Dynamic changes in the higher-level chromatin organization of specific sequences revealed by in situ hybridization in nuclear halos," <i>J. Cell Biol.</i> 126:289-304 (1994).	
		GUNJI, et al., "Correlation Between the Serum Level of Hepatitis C Virus RNA and Disease Activities in Acute and Chronic Hepatitis C", <i>Int. J. Cancer</i> 52(5): 726-730 (1992).	
		GUO, et al., "Direct fluorescence analysis of genetic polymorphisms by hybridization with oligonucleotide arrays on glass supports", <i>Nucleic Acids Res.</i> 22(24): 5456-5465 (1994).	
		GUO, et al., "Enhanced discrimination of single nucleotide polymorphisms by artificial mismatch hybridization," <i>Nature Biotechnology</i> 15:331-335 (1997).	
		GUPTA, et al., "Ninth International Conference on AIDS/Fourth STD World Congress", June 6-11, 1993, Berlin, Germany.	
		HACIA, et al., "Detection of heterozygous mutations in BRCA1 using high density oligonucleotide arrays and two-color fluorescence analysis," <i>Nature Genetics</i> 14:441-447.	
		HAGIWARA, et al., "Quantitation of hepatitis C Virus RNA in Serum of Asymptomatic Blood Donors and Patients with Type C Chronic Liver Disease", <i>Hepatology</i> 17(4): 545-550 (1993).	

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		First Named Inventor	Paul M. Lizardi
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H		HANVEY, et al., "Antisense and Antigene Properties of Peptide Nucleic Acids", <i>Science</i> 258: 1481-1485 (1992).	
		HATA, et al., "Structure of the Human Ornithine Transcarbamylase Gene", <i>J. Biochem.</i> 103: 302-308 (1988).	
		HENDRICKSON, et al., "High sensitivity multianalyte immunoassay using covalent DNA-labeled antibodies and polymerase chain reaction", <i>Nucleic Acids Res.</i> 23(3): 522-529 (1995).	
		HOLLOWAY, et al., "An exonuclease-amplification coupled capture technique improves detection of PCR product", <i>Nucleic Acids Research</i> 21: 3905-3906 (1993).	
		HOY & SCHIMKE, "Bromodeoxyuridine/DNA analysis of replication in CHO cells after exposure to UV light", <i>Mutation Research</i> 290: 217-230 (1993).	
		HSUIH, et al., "Quantitative Detection of HCV RNA Using Novel Ligation-Dependent Polymerase Chain Reaction", <i>American Association for the Study of Liver Diseases</i> ; (Chicago, IL, November 3-7, 1995) [poster abstract].	
		ITAKURA, et al., "Synthesis and Use of Synthetic Oligonucleotides", <i>Annual Review of Biochemistry</i> 53: 323-356 (1984).	
		JACOBSEN, et al., "The N-Terminal Amino-Acid Sequences of DNA Polymerase I from <i>Escherichia coli</i> and of the Large and the Small Fragments Obtained by a Limited Proteolysis", <i>Eur. J. Biochem.</i> 45: 623-627 (1974).	
		JOHNSTONE & THORPE, <i>Immunochemistry In Practice</i> (Blackwell Scientific Publications, Oxford, England, 1987) pages 209-216 and 241-242	
		JUNG, et al., "Bacteriophage PRD1 DNA polymerase: Evolution of DNA polymerases", <i>Proc. Natl. Acad. Sci. USA</i> 84: 8287 (1987).	

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Substitute for form 1449A/PTO		Complete If Known			
		Application Number	69/044,723 Unassigned		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)		Filing Date	August 23, 2000 Herewith		
		First Named Inventor	Paul M. Lizardi		
		Group Art Unit			
		Examiner Name			
Sheet	7	of	12	Attorney Docket Number	YU 115 CON (2) 2500-000105

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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[Signature]		KABOORD & BENKOVIC, "Accessory proteins function as matchmakers in the assembly of the T4 DNA polymerase holoenzyme", <i>Current Biology</i> 5: 149-157 (1995).	
[Signature]		KALIN, et al., "Evaluation of the ligase chain reaction (LCR) for the detection of point mutations", <i>Mutation Research</i> 283(2): 119-123 (1992).	
[Signature]		KAPLAN, et al., "Rapid photolytic release of adenosine 5'-triphosphate from a protected analogue: utilization by the Na:K pump of human red blood cell ghosts" <i>Biochem.</i> 17:1929-1935 (1978).	
[Signature]		KELLOGG, et al., "TaqStart Antibody™: "Hot Start" PCR Facilitated by a Neutralizing Monoclonal Antibody Directed Against Taq DNA Polymerase", <i>BioTechniques</i> 16(6): 1134-1137 (1994).	
[Signature]		KERKHOF, "A Comparison of Substrates for Quantifying the Signal from a Nonradiolabeled DNA Probe", <i>Analytical Biochemistry</i> 205: 359-364 (1992).	
[Signature]		KHRAPKO, et al., "Hybridization of DNA with Oligonucleotides Immobilized in Gel: A Convenient Method for Detecting Single Base Substitutions", <i>Molecular Biology (Mosk) (USSR)</i> 25: 718-730 (1991).	
[Signature]		KING, et al., "Bridging the Gap", <i>Journal of Biological Chemistry</i> 269(18): 13061-13064 (1994).	
[Signature]		KONG, et al., "Characterization of a DNA Polymerase from the Hyperthermophile Archaea <i>Thermococcus litoralis</i> ", <i>Journal of Biological Chemistry</i> 268: 1965-1975 (1993).	
[Signature]		KOOL, "Circular Oligonucleotides: New Concepts in Oligonucleotide Design," <i>Annual Rev. Biomol. Struct.</i> 25:1-28 (1996).	
[Signature]		KUNKEL, et al., "Rapid and Efficient Site-Specific Mutagenesis without Phenotypic Selection", <i>Methods in Enzymology</i> 154: 367-382 (1987).	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	68/644,733 Unassigned
		Filing Date	August 23, 2000 Newwith
		First Named Inventor	Paul M. Lizardi
		Group Art Unit	
		Examiner Name	
Sheet 8 of 12	Attorney Docket Number	YU 115 CON 121 25006.0001 US	

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		LAMTURE, et al., "Direct detection of nucleic acid hybridization on the surface of a charge coupled device" <i>Nucleic Acids Research</i> 22(11): 2121-2125 (1994).	
		LANDEGREN, "Molecular mechanics of nucleic acid sequence amplification," <i>Trends Genetics</i> 9:199-202 (1993).	
		LANDEGREN, et al., "A Ligase-Mediated Gene Detection Technique", <i>Science</i> 241: 1077-1080 (1988).	
		LANGER, et al., "Enzymatic synthesis of biotin-labeled polynucleotides: Novel nucleic acid affinity probes", <i>Proc. Natl. Acad. Sci. USA</i> 78(11): 6633-6637 (1981).	
		LAWYER, et al., "High-level Expression, Purification, and Enzymatic Characterization of Full-length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity", <i>PCR Methods Applications</i> 2(4): 275-287 (1993).	
		LEFRERE, et al., "Towards a new predictor of AIDS progression through the quantitation of HIV-1 DNA copies by PCR in HIV-infected individuals", <i>British Journal of Haematology</i> 82(2): 467-471 (1992).	
		LESNICK & FREIER, "Relative Thermodynamic Stability of DNA, RNA, and DNA:RNA Hybrid Duplexes: Relationship with Base Composition and Structure", <i>Biochemistry</i> 34: 10807-10815 (1995).	
		LIU, et al., "Rolling circle DNA synthesis: Small circular oligonucleotides as efficient templates for DNA polymerases," <i>J. Am. Chem. Soc.</i> 118:1587-1594 (1996).	
		LOCKHART, et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays," <i>Nature Biotechnology</i> 14:1675-1680 (1996).	
		LU, et al., "High Concentration of Peripheral Blood Mononuclear Cells Harboring Infectious Virus Correlates with Rapid Progression of Human Immunodeficiency Virus Type 1-Related Diseases", <i>JID</i> 168(5): 1165-8116 (1993).	

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		Application Number	09/644,723 <i>Unassigned</i>		
		Filing Date	August 29, 2000 <i>Herewith</i>		
		First Named Inventor	Paul M. Lizardi		
		Group Art Unit			
Examiner Name					
Sheet	9	of	12	Attorney Docket Number	YU 116 CON (2) 25006.000/145

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
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<i>[Signature]</i>		LUKYANOV, et al., "Molecule by molecule PCR amplification of complex DNA mixtures for direct sequencing: an approach to in vitro cloning," <i>Nucleic Acids Research</i> 20:1691-1696 (1996).	
		LUO, et al., "Improving the fidelity of <i>Thermus thermophilus</i> DNA ligase," <i>Nucl. Acids Res.</i> 24:3071-3078 (1996).	
		MARSHALL, et al., "Detection of HCV RNA by the Asymmetric Gap Ligase Chain Reaction", <i>PCR Methods and Applications</i> 4: 80-84 (1994).	
		MASKOS, et al., "Oligonucleotide hybridizations on glass supports: a novel linker for oligonucleotides synthesized <i>in situ</i> ," <i>Nucleic Acids Research</i> 20:1679-1684 (1992).	
		MATSUMOTO, et al., "Primary structure of bacteriophage M2 DNA polymerase: conserved segments within protein-priming DNA polymerases and DNA polymerase I of <i>Escherichia coli</i> , <i>Gene</i> 84(2): 247-255 (1989).	
		MCCRAY, et al., "A new approach to time-resolved studies of ATP-requiring biological systems: Laser flash photolysis of caged ATP" <i>Proc. Natl. Acad. Sci. USA</i> 77:7237-7241 (1980).	
		MCGRAW, et al., "Sequence-dependant oligonucleotide-target duplex stabilities: rules from empirical studies with a set of twenty-mers" <i>Biotechniques</i> 8:674-678 (1990).	
		MELTON, et al., "Efficient <i>in vitro</i> synthesis of biologically active RNA and RNA hybridization probes from plasmids containing a bacteriophage SP6 promoter", <i>Nucleic Acids Research</i> 12(18): 7035-7056 (1984).	
		METZKER, et al., "Termination of DNA synthesis by novel 3'-modified-deoxyribonucleoside 5'-triphosphates" <i>Nucleic Acids Research</i> 22:4259-4267 (1994).	
<i>[Signature]</i>		MUJUMDAR, et al., "Cyanine dye labeling reagents containing isothiocyanate groups" <i>Cytometry</i> 10:11-19 (1989).	
Examiner's Signature	<i>[Signature]</i>	Date Considered	12/6/82

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/644,725 <i>Unassigned</i>
		Filing Date	August 23, 2000 <i>Hernandez</i>
		First Named Inventor	Paul M. Lizardi
		Group Art Unit	
		Examiner Name	
Sheet 10 of 12	Attorney Docket Number	YU 115 CON (2) 2500-0001 US	

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
<i>[Signature]</i>		NARANG, et al., "Chemical Synthesis of Deoxypolynucleotides by the Modified Triester Method", <i>Methods Enzymology</i> 65: 610-620 (1980).	
		NEWTON, et al., "Analysis of any point mutation in DNA. The amplification refractory mutation refractory mutation system (ARMS)", <i>Nucl. Acids Res.</i> 17:2503-2516 (1989).	
		NIELSEN, et al., "Peptide Nucleic Acid (PNA). A DNA Mimic with a Peptide Backbone", <i>Bioconjugate Chemistry</i> , 5: 3-7 (1994).	
		NIELSEN, et al., "Peptide nucleic acids (PNAs): Potential anti-sense and anti-gene agents", <i>Anti-Cancer Drug Design</i> , 8: 53-63 (1993).	
		NIKIFOROV, et al., "Genetic Bit Analysis: a solid phase method for typing single nucleotide polymorphisms", <i>Nucleic Acids Research</i> 22(20): 4167-4175 (1994).	
		NIKIFOROV, et al., "The Use of Phosphorothioate Primers and Exonuclease Hydrolysis for the Preparation of Single-stranded PCR Products and their Detection by Solid-phase Hybridization", <i>PCR Methods and Applications</i> 3: 285-291 (1994).	
		NILSSON, et al., "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection", <i>Science</i> 265: 2085-2088 (1994).	
		NILSSON, et al., "U. Padlock probes reveal single-nucleotide differences, parent of origin and <i>in situ</i> distribution of centromeric sequences in human chromosomes 13 and 21," <i>Nature Genet.</i> 16:252-255 (1997).	
		ØRUM, et al., "Single base pair mutation analysis by PNA directed PCR clamping", <i>Nucleic Acids Research</i> 21(23): 5332-5336 (1993).	
<i>[Signature]</i>		PANASNKO, et al., "A Simple, Three-Step Procedure for the Large Scale Purification of DNA Ligase from a Hybrid λ Lysogen Construction <i>in Vitro</i> ", <i>Journal Biological Chemistry</i> 253: 4590-4592 (1978).	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	<del>00/644,723</del> <b>Unassigned</b>
		Filing Date	<del>August 23, 2000</del> <b>Herewith</b>
		First Named Inventor	Paul M. Lizardi
		Group Art Unit	
		Examiner Name	
Sheet 11 of 12	Attorney Docket Number	YU 115-000121-2500L-000145	

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
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		PEASE, et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis", <i>Proc. Natl. Acad. Sci. USA</i> 91(11): 5022-5026 (1994).	
		PIATAK, et al., "High Levels of HIV-1 in Plasma During All Stages of Infection Determined by Competitive PCR", <i>Science</i> 259(5102): 1749-1754 (1993).	
		PILLAI, et al., "Photoremovable protecting groups in organic synthesis" <i>Synthesis</i> 1-26 (1980).	
		POKROVSKAYA & GUREVICH, "In Vitro Transcription: Preparative RNA Yields in Analytical Scale Reactions", <i>Analytical Biochemistry</i> 220: 420-423 (1994).	
		PRAKASH, et al., "Structural effects in the recognition of DNA by circular oligonucleotides," <i>J. Amer. Chem. Soc.</i> 114:3523-3527 (1992).	
		RICHARDS, et al., "Conditional mutator phenotypes in hMS2H2-deficient tumor cell lines," <i>Science</i> 277:1523-1526 (1997).	
		RIED, et al., "Simultaneous visualization of seven different DNA probes by <i>in situ</i> hybridization using combinatorial fluorescence and digital imaging microscopy", <i>Proc. Natl. Acad. Sci. USA</i> 89(4): 1388-1392 (1982).	
		RIGLER & ROMANO, "Differences in the Mechanism of Stimulation of T7 DNA Polymerase by Two Binding Modes of <i>Escherichia coli</i> Single-stranded DNA-binding Protein", <i>Journal of Biological Chemistry</i> , 270(15): 8910-8919 (1995).	
		RYCHLIK, et al., "Optimization of the annealing temperature for DNA amplification <i>in vitro</i> ", <i>Nucleic Acids Research</i> 18(21): 6409-6412 (1990).	
		RYS & PERSING, "Preventing False Positives: Quantitative Evaluation of Three Protocols for Inactivation of Polymerase Chain Reaction Amplification Products", <i>Journal of Clinical Microbiology</i> 31(9): 2356-2360 (1993).	

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		Application Number	<del>09/044,729</del> unassigned
		Filing Date	August 29, 2000 - Kuroishi
		First Named Inventor	Paul M. Lizardi
		Group Art Unit	
		Examiner Name	
Sheet 12 of 12	Attorney Docket Number	YU 115 CON (2) 25006-000145	

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		SAKSELA, et al., "Human immunodeficiency virus type 1 mRNA expression in peripheral blood cells predicts disease progression independently of the numbers of CD4+ lymphocytes", <i>Proc. Natl. Acad. Sci. USA</i> 91(3): 1104-1108 (1994).	
		SAMBROOK, et al., "Molecular Cloning: A Laboratory Manual, Second Edition" (Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1989 (Chapters 5, 6)).	
		SARIS, et al., "Blotting of RNA into RNA exchange paper allowing subsequence characterization by in situ translation in addition to blot hybridization," <i>Nucleic Acids Res.</i> 10:4831-4843 (1982).	
		SCHENA, et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray" <i>Science</i> 270:467-470 (1995).	
		SCHENA, et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," <i>Proc. Natl. Acad. Sci. USA</i> 91:10614-10619 (1994).	
		SCHENBORN & MEIRENDORF, "A novel transcription property of SP6 and 17 RNA polymerases: dependence on template structure", <i>Nucleic Acids Research</i> 13(17): 6223-6236 (1985).	
		SCHWARZ, "Improved yields of long PCR products using gene 32 protein," <i>Nucl. Acids Res.</i> 18:1079 (1990).	
		SIEGEL, et al., "A Novel DNA Helicase from Calf Thymus", <i>Journal of Biological Chemistry</i> 267(19): 13629-13635 (1992).	
		SKALITER & LEHMAN, "Rolling circle DNA replication <i>in vitro</i> by a complex of herpes simplex virus type 1-encoded enzymes", <i>Proc. Natl. Acad. Sci. USA</i> 91(22): 10665-10669 (1994).	

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